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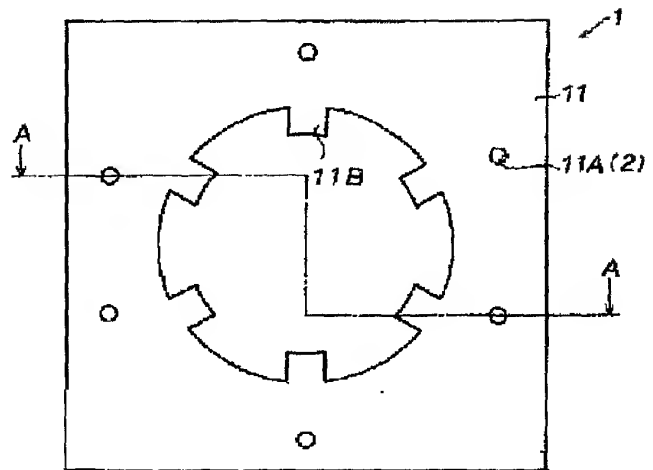
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APPLICANT : NIPPON ELECTRIC IND CO LTD;

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TITLE : COOLING MECHANISM OF SWITCHED
RELUCTANCE MOTOR



ABSTRACT : PROBLEM TO BE SOLVED: To enable manufacture wherein cooling effect is excellent, and miniaturization and cost reduction are possible, by constituting a stator core of a plurality of thin plates, laminating the thin plates in the watertight state, forming penetrating holes in the peripheral side, making the holes continuously connected water paths, and making cooling water flow in the water paths.

SOLUTION: In thin plates 11 constituting a stator core 1, holes 11A are formed penetrating the plates, at the corresponding same position, in the vicinity of protruding parts 11B. The thin plates are mutually laminated in the watertight state, by welding or the like. Water paths 2 collectively penetrating the thin plates 11 from the uppermost part to the lowermost part are installed. Copper pipes or the like excellent in thermal conductivity may be installed in the water paths. By using the water paths 2, cooling water is made to flow from the outside, and Joule heat is dissipated. Thereby excellent cooling effect can be realized with simple structure, without externally installing a cooling equipment. Manufacturing cost can be reduced, and miniaturization of the equipment is enabled.

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